

Cloning, Expression and Uses of Dorsalin-1

Abstract of the disclosure

5 This invention provides an isolated vertebrate nucleic acid molecule which encodes dorsalin-1. This invention also provides a nucleic acid probe capable of specifically hybridizing with a sequence included within the sequence of a nucleic acid molecule encoding a
10 dorsalin-1. The invention also provides a vector and host vector system for the production of a polypeptide having the biological activity of dorsalin-1 which comprises the above-described vector in a suitable host. This invention also provides a purified vertebrate
15 dorsalin-1. This invention provides a method for stimulating neural crest cell differentiation, a method for regenerating nerve cells, a method for promoting bone growth, a method for promoting wound healing and a method for treating neural tumor using purified dorsalin-1. This
20 invention further provides a pharmaceutical composition comprising purified dorsalin-1 and a pharmaceutically acceptable carrier. Finally, this invention provides an antibody capable of binding to dorsalin-1.

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